

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the instant application:

**Listing of Claims:**

1. (Withdrawn) An apparatus for providing information to the driver of a vehicle, the apparatus comprising:

a touch screen display that iteratively displays

a first display that presents a menu of driver-selectable destination categories, each category corresponding to a predefined geographic region,

a second display that in response to a selection by the driver of at least one destination category presents a list of destinations corresponding to the at least one destination category selected;

a positioning device which determines the location of the vehicle;

a storage device including stored information about the location of a desired driver action, the location of the desired driver action being based upon a destination selected by the driver from the list of destinations;

a comparator which compares the location of the vehicle with the stored information about the location of the desired driver action and which provides a signal when the location of the vehicle is in a predetermined relationship to the location of the desired driver action; and

a projector which displays a message on the windshield indicating the desired driver action in response to the signal.

2. (Withdrawn) An apparatus of the type described in Claim 1 where the projector is a heads-up display.

3. (Withdrawn) An apparatus of the type described in Claim 1 wherein the apparatus further includes an audible indicator of a message in response to the signal.
4. (Withdrawn) An apparatus of the type described in Claim 3 wherein the audible indicator includes a speech synthesis system which provides an audible message.
5. (Withdrawn) An apparatus of the type described in Claim 3 wherein the audible indicator includes a speech synthesis system which can provide at least one audible message which is selected based on the desired driver action.
6. (Withdrawn) An apparatus of the type described in Claim 3 wherein the audible indicator includes a first indicator at a first distance from the desired location and a second indicator at a second, shorter distance from the desired location.
7. (Withdrawn) An apparatus of the type described in Claim 1 wherein the apparatus includes an indicator that the driver did not make the desired driver action, whereby the driver receives an indication of the missing of the desired driver action after the desired driver action was missed.
8. (Withdrawn) An apparatus of the type described in Claim 1 wherein the system includes a wireless receiver which receives broadcast traffic information and is coupled to the projector to display the broadcast traffic information.
9. (Withdrawn) An apparatus of the type described in Claim 1 wherein the system includes a wireless receiver which receives weather information sent from outside the vehicle, with the wireless receiver coupled to the projector for displaying the weather information to the driver.

10. (Withdrawn) An apparatus of the type described in Claim 1 wherein the system includes a wireless receiver which receives advertising information and couples to the projector to display the advertising information to the driver.

11. (Currently Amended) A method of providing driving instructions including the steps of

sensing a position of the vehicle;

comparing the position of the vehicle with a desired location;

if the vehicle is in a predetermined position ~~with respect to the desired location~~,  
generating a signal which indicates that the driver should take an action, wherein the predetermined position is determined based upon an estimated time when the driver should take the action; [[and]]

in response to the signal, displaying on a windshield of the vehicle a message indicating the action the driver should take the action along with a virtual image of an area around the desired location, the image including at least one landmark~~[[,]] wherein at least one attribute of the at least one landmark changes as the vehicle moves in relation to the at least one landmark; and~~

terminating the displaying of the message and virtual image prior to when the driver should take the action.

12. (Original) A method including the steps of Claim 11 wherein the step of generating a signal includes the step of providing an audible signal indicating that the driver should take an action.

13. (Original) A method including the steps of Claim 12 wherein the step of providing an audible signal indicates that a message is displayed on the windshield.

14. (Original) A method including the steps of Claim 12 wherein the step of providing an audible signal includes the step of broadcasting the message on a speaker.

15. (Original) A method including the steps of Claim 11 wherein the method further includes the step of displaying a distance to the desired action.

16. (Previously Presented) A method including the steps of Claim 11 where the method further includes the step of determining the speed of the vehicle and providing an indication of the desired action a predetermined time period in advance of the desired action.

17. (Previously Presented) A method including the steps of Claim 11 wherein the method further includes the step of determining when the vehicle has passed the desired location and providing an indication that the driver has missed a turn, whereby the driver may take action more quickly to recover from missing the desired location.

18. (Cancelled)

19. (Cancelled)

20. (Currently Amended) A program stored on a storage medium for generating a displayed message to a driver of a vehicle on the windshield of the vehicle, the program comprising:

a program element for determining a message for display, the message indicating an action the driver should take;

a program element for determining an appropriate time for displaying the message, the appropriate time being based on an estimated time when the driver should take the action;

a program element coupled to a projector for providing the message for display at the appropriate time for the display, whereby the message can be displayed to the driver on the windshield of his car at the appropriate time, and for providing a virtual image of an area corresponding to a ~~current location of the vehicle~~ a location at which the driver should take the action, the virtual image including at least one landmark, ~~wherein at least one attribute of the at least one landmark changes as the vehicle moves in relation to the landmark; and~~

a program element for terminating the displaying of the message and virtual image prior to when the vehicle will reach the location at which the driver should take the action.

21. (Previously Presented) A program of the type described in Claim 20 wherein the program element for determining the message for display includes a stored program indicating at least one desired driving direction and a location for that driving direction to be displayed and the program further includes a program element for determining when the vehicle is in the location for the driving direction to be displayed.

22. (Original) A program of the type described in Claim 21 wherein the program element for determining when the car is in the location for the direction to be displayed includes a program element for receiving global positioning information.

23. (Previously Presented) A program of the type described in Claim 21 wherein the program element for storing at least one driving direction includes a program element for receiving the driving instruction from a remote source.

24. (Previously Presented) A program of the type described in Claim 21 where the program element for storing at least one driving direction includes a stored navigational program.

25. (Withdrawn) A service for providing information to the driver of a vehicle comprising:

- presenting to the driver a menu of driver-selectable destination categories, each category corresponding to a predefined geographic region;

- in response to a selection by the driver of at least one destination category, presenting to the driver a list of destinations corresponding to the at least one destination category selected;

- receiving at least one desired destination selected by the driver from among the list of destinations;

- determining a route for the driver to reach the destination including at least one turn for the vehicle to reach the destination;

- determining a location of the vehicle and when the vehicle is approaching the at least one turn and providing a message to the vehicle; and

- displaying the message on a windshield of the vehicle when the vehicle is approaching the at least one turn so that the driver may be informed of the turn at an appropriate time without requiring the driver to remove his eyes from the windshield.

26. (Currently Amended) A system for displaying information to a driver in a vehicle comprising:

- a location system which determines the location of the vehicle;

a storage device which provides a picture of ~~[[the]]~~ a roadway near ~~[[the]]~~ a desired location of the vehicle in response to the location of the vehicle at which a driver action should be taken; and

a device which generates a display of the picture of the roadway on the windshield of the vehicle allowing the driver of the vehicle to see the display without removing his eyes from the roadway, wherein the picture includes at least one image of a landmark, ~~at least one attribute of the image of the landmark changing as the vehicle moves in relation to the landmark;~~

wherein the device generates the display based upon at least one of an estimated distance from the vehicle location to the desired location and an estimated time for the vehicle to reach the desired location, and wherein the device terminates the display prior to the vehicle reaching the desired location.

27. (Previously Presented) A system of the type described in Claim 26 wherein the picture displayed is a live picture.

28. (Previously Presented) A system of the type described in Claim 27 wherein the live picture is from a camera mounted over the roadway.

29. (Previously Presented) A system of the type described in Claim 26 wherein the display includes driving directions.

30. (Previously Presented) A system of the type described in Claim 29 wherein the display includes driving directions in the form of a turn indicated on the picture of the roadway.

31. (Previously Presented) A system of the type described in Claim 26 wherein the picture is a picture taken previously and stored in memory.

32. (Currently Amended) A method for displaying information to a vehicle driver comprising the steps of:

determining ~~[[the]]~~ a first position of the vehicle;

finding a picture of an intersection based on the position of the vehicle at which a driver action should be taken;

displaying the picture of the intersection on the windshield of the vehicle so that the driver can see the picture while looking out the windshield, wherein the picture of the intersection includes at least one image of a landmark, at least one attribute of the image of the landmark changing as the vehicle moves relative to landmark and wherein the picture is displayed based upon at least one of an estimated distance from the first determined vehicle position to the intersection and an estimated time at which the driver action should be taken given the determined vehicle position; and

terminating the displaying of the picture prior to the vehicle reaching the intersection given a second determined position of the vehicle.

33. (Previously Presented) A method of displaying information including the steps of Claim 32 wherein the step of finding a picture includes the step of retrieving a stored picture of the roadway from memory.

34. (Previously Presented) A method of displaying information including the steps of Claim 32 wherein the step of finding a picture includes the step of receiving a live picture of the roadway.



35. (Previously Presented) A method of displaying information including the steps of Claim 34 wherein the step of finding a picture includes the step of receiving a live picture from a camera mounted above the intersection.

36. (Previously Presented) A method of displaying information including the steps of Claim 32 wherein the step of displaying a picture of the intersection further includes the step of adding driving instructions to the display.

37. (Withdrawn) The apparatus of Claim 1, wherein the destination categories include at least one of a commercial sites category, a traveler accommodations category, a historic sites category, and predetermined tourist attraction sites category, each designated by region.

38. (Withdrawn) The apparatus of Claim 1, wherein the projector further displays a virtual image of an area around the location of the desired driver action when the vehicle is within a predetermined distance to the location.

39. (Withdrawn) The apparatus of Claim 38, wherein the virtual image includes at least one landmark.

40. (Withdrawn) The apparatus of Claim 39, wherein at least one attribute of the at least one landmark changes as the vehicle moves in relation to the at least one landmark.

41. (Withdrawn) The apparatus of Claim 40, wherein the at least one attribute includes a size of the landmark, the size increasing as the vehicle moves closer to the at least one landmark.

42. (Withdrawn) The apparatus of Claim 40, wherein the at least one attribute includes a brightness of the landmark, the brightness increasing as the vehicle moves closer to the at least one landmark.

43. (Withdrawn) The apparatus of Claim 1, wherein the touch screen further iteratively displays a third display that in response to the driver selecting a destination from the list of destinations displays a map of the destination selected.

44. (Withdrawn) The apparatus of Claim 43, wherein the touch screen further iteratively displays at least one additional map, the additional map providing more information than a preceding map displayed on the touch screen.

45. (Previously Presented) A method including the steps of Claim 11, wherein the at least one attribute is a size of the at least one landmark, the size increasing as the vehicle moves closer to the at least one landmark.

46. (Previously Presented) A method including the steps of Claim 11, wherein the at least one attribute is a brightness of the landmark, the brightness increasing as the vehicle moves closer to the at least one landmark.

47. (Previously Presented) The system of Claim 26, wherein the display further includes text superimposed on the picture, the text providing information corresponding to the landmark.

48. (Previously Presented) A method including the steps of Claim 32, further comprising superimposing on the display textual information corresponding to the landmark.

49. (Withdrawn) A method of providing information to a driver of a vehicle, the method comprising:

providing a menu of driver-selectable destination categories, each category corresponding to a particular type of landmarks in a geographic region; and

providing on a windshield of the vehicle an image of each landmark belonging to each destination category selected by the driver.

50. (New) A method including the steps of Claim 11, further comprising displaying on the windshield of the vehicle information corresponding to the at least one landmark and information corresponding to the environs of the desired location.

51. (New) A method including the steps of Claim 11, further comprising displaying on the windshield of the vehicle at least one of an e-mail message, an advertisement, a news report, a weather report, and a traffic advisory.

52. (New) A method of providing driving instructions including the steps of  
sensing a position of the vehicle;  
comparing the position of the vehicle with a desired location;  
if the vehicle is in a predetermined position, generating a signal which indicates that the driver should take an action, wherein the predetermined position is determined based upon an estimated distance to a location at which the driver should take the action;

in response to the signal, displaying on a windshield of the vehicle a message indicating the action the driver should take the action along with a virtual image of an area around the desired location, the image including at least one landmark; and

terminating the displaying of the message and virtual image prior to the vehicle reaching the location at which the driver should take the action.

53. (New) A method including the steps of Claim 52 wherein the step of generating a signal includes the step of providing an audible signal indicating that the driver should take an action.

54. (New) A method including the steps of Claim 53 wherein the step of providing an audible signal indicates that a message is displayed on the windshield.

55. (New) A method including the steps of Claim 54 wherein the step of providing an audible signal includes the step of broadcasting the message on a speaker.

56. (New) A method including the steps of Claim 52 wherein the method further includes the step of displaying a distance to the desired action.

57. (New) A method including the steps of Claim 52 where the method further includes the step of determining the speed of the vehicle and providing an indication of the desired action a predetermined time period in advance of the desired action.

58. (New) A method including the steps of Claim 52 wherein the method further includes the step of determining when the vehicle has passed the desired location and providing an indication that the driver has missed a turn, whereby the driver may take action more quickly to recover from missing the desired location.

59. (New) A method including the steps of Claim 52, further comprising displaying on the windshield of the vehicle information corresponding to the at least one landmark and information corresponding to the environs of the desired location.

60. (New) A method including the steps of Claim 52, further comprising displaying on the windshield of the vehicle at least one of an e-mail message, an advertisement, a news report, a weather report, and a traffic advisory.